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APPLICANT

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CONTINUING DATA********
VERIFIED

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FOREIGN/PCT APPLICATIONS********
VERIFIED

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***** SMALL ENTITY *****

STATE OR COUNTRY	SHEETS DRAWING	TOTAL CLAIMS	INDEPENDENT CLAIMS	FILING FEE RECEIVED	ATTORNEY DOCKET NO.
CAX	6	20	2	$355.00	55751AUS

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TITLE

INSULATING CONSTRUCTION PANEL OR BLOCK

This is to certify that annexed hereto is a true copy from the records of the United States Patent and Trademark Office of the application which is identified above.

By authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS

Date Certifying Officer

JS 4-6-94

PATENT APPLICATION SERIAL NO. 08 195017

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

100 MG 02/25/94 08195017	1 201	300.00 CK	5575-1A-US
100 MG 02/25/94 08195017	1 201	50.00 CK	5575-1A-US
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PTO-1556
(5/87)

ABSTRACT

The present invention discloses an insulating construction member having top and bottom edges and interconnecting members on the top and bottom edges. The interconnecting members comprise alternating projections and recesses, the projections and recesses being of substantially the same dimension. The interconnecting members on the top and bottom edges are symmetrically arranged whereby the insulating construction member can be interconnected with a like member in a bi-directional or reversible manner.

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INSULATING CONSTRUCTION PANEL OR BLOCK

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to interlocking insulating construction panels or blocks. More particularly, the present invention relates to an insulating construction block or panel having interconnecting means having a symmetrical pattern which permits the interconnecting with like blocks or panels in a bi-directional and/or reversible manner.

2. Description of the Prior Art

U.S. Patent 4,229,920 discloses a foamed plastic concrete form which includes projecting tongues on one end and on one side and a corresponding groove on the opposite end and upon the opposite side edges so that adjacent forms can be interlocked in end to end relationship and will also interlock when placed one above the other. In such an arrangement, the forms will only interlock when placed in a bottom to top arrangement, i.e. the blocks must be arranged in a specific orientation for interconnection; this patent does not permit the bidirectional or reverse interlocking of forms.

U.S. Patent 4,894,969 discloses an insulating block form for constructing concrete wall structures including interlocking means to permit stacking of the blocks one on top of the other. The construction of this patent does not permit the stacking of a plurality of blocks in a reversible or a bi-directional manner.

SUMMARY OF THE INVENTION

Preferred embodiments of the present invention

provide for an insulating construction panel or block which is designed in such a manner to permit its interconnection with like panels or blocks in a bi-directional and/or reversible manner. Such a construction member is much easier to interconnect with like members, as there are a plurality of ways the members can be interconnected and this thus allows installers to proceed at a much faster pace then possible with previously known insulating construction panels or blocks. Further, with such insulating construction members, there is less waste as cut portions, for example portions cut for window or door openings, can be utilized anywhere due to the special interconnection means which permits bi-directional and/or reversible interconnection.

In accordance with an embodiment of the present invention there is provided an improved insulating construction member having top and bottom edges and interconnecting means on the top and bottom edges. The improvement wherein the interconnecting means comprise alternating projections and recesses, the projections and recesses being of substantially the same dimension, and wherein the interconnecting means on said top and bottom edges are symmetrical whereby the construction member can be interconnected with a like member in a bi-directional and/or reversible manner.

The insulating construction member can be in the form of an insulating construction block or an insulating construction panel.

In accordance with yet another embodiment of the present invention there is provided an insulating construction block comprising: a pair of substantially parallel side members having top and bottom edges; at least

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one web interconnecting the side members; interconnecting means on the top and bottom edges, the interconnecting means including at least one row of alternating projections and recesses, the projections and recesses having substantially the same dimensions. The interconnecting means on the top and bottom edges are substantially symmetrical whereby the insulating construction block can be interlocked with a like block in a bi-directional and/or reversible manner.

In a preferred form the construction block of the present invention includes end pieces which may preferably be readily inserted and removed from the block by way of a sliding tongue and groove type arrangement. In this respect the side members may have grooves for slidably receiving projections on the ends of the end pieces. Any other suitable arrangement may be utilized. The end pieces may also be integral with the block if desired.

Preferably, the interconnection means on the top and bottom edges of the insulating construction panel or block includes two rows of alternating projections and recesses. Where two rows of alternating projections and recesses are provided, preferably the adjacent pairs of each row are opposites, i.e. a recess of one row is preferably adjacent a projection of the other row. Such an arrangement provides for a stronger interconnection between like insulating members.

There may also be provided sealing means positioned between the rows of alternating projections and recesses. Such a sealing means is preferably in the form of a raised portion which extends along the length of the interconnection means and which is of a height less than the height of the projections, preferably about one-half

the height of the projections.

The interconnecting means preferably extend along the entire length of the top and bottom edges of the insulating member although it is not necessary that the interconnecting means extend along the entire length as they may be present in just one or more sections.

The projections and recesses of the interconnecting means are of substantially the same shape and dimensions and, in one preferred form, are of a rectangular configuration, although it will be understood that any other configuration can be utilized, such as, for example, circular, square, triangular, polygonal, etc.

In a preferred form of the insulating construction members of the present invention, each of the projections and recesses preferably have a tapered configuration. For example, in the case of a rectangular projection, the side walls of the projection are preferably provided with a tapered outline running from the free top side walls towards the bottom wall connected to the main body of the insulting member. Preferably, at least two opposed walls of a rectangular configuration are provided with the tapered construction; all four side walls of the rectangular projection could be provided with such a feature.

In a like manner, the recesses will correspondingly be of a tapered construction where the two opposed walls of the projections are opposed walls extending in the axial direction of the insulating member. Such a tapered recess construction would be the reverse configuration where the recesses have a broader or wider open top tapering to a narrower bottom construction.

This preferred tapered construction permits an easier assembly of one insulating member onto another like member during usage.

It is a particularly preferred feature that the interconnecting means have projections and recesses which have a substantially conical configuration.

Preferably, in the case of an insulating construction block, the side members and interconnecting means are of a one-piece integral configuration, although it will be understood that the interconnecting means and the side members can be formed separately and joined together.

In the case of an insulating panel, it is preferred that the panel and the interconnecting means are of a one piece integral configuration; although, as in the case of the insulating block, the panel and the interconnecting means can be formed separately and joined together.

In the insulating block arrangement, preferably the interconnecting web is of a rigid material or at least non-extensible material. Although the web can be formed from any suitable material including various types of metals, preferably the web is formed of a suitable synthetic polymeric material.

Typical polymeric materials are those known in the art including polymers and copolymers of various types e.g. polyethylene or copolymers thereof, polypropylene or copolymers thereof, polystyrene or copolymers thereof, etc.

The polymer may be a foamed polymer, or more

generally, such webs are formed of non-foamed material.

The structural configuration of the web can also very considerably; generally, the web includes anchoring means for anchoring the respective ends of the web into the foam blocks. In addition, the web may be formed of two or more sections so that an adjustable web can be utilized to form blocks of varying width.

The number of webs in a typical block will vary depending on the size and dimensions of the block; typically, small blocks may have one or two webs with up to 10 or more webs on standard (one metre) size blocks.

The insulating construction members of the present invention are preferably formed of a foamed material, such as any of the foamed polyolefins, e.g. polyethylene, polypropylene, etc. or other foamed polymers which find use in the construction industry such as foamed styrene polymers and copolymers, foamed urethanes, etc.

The design of the insulating construction member of the present invention in preferred forms permits the member to be interconnected with a like member in any of a plurality of positions. More specifically the members are bi-directional and reversible which means that there is not only one right way to interconnect the members, i.e. they do not have to be interconnected in one particular way such as bottom to top. Such an arrangement allows installers to proceed at a much faster pace than previously possible as they do not have to orient the members in one certain way for interconnection. Also, such an arrangement creates less waste, i.e. a portion cut for forming a window or door opening, for example, can be utilized anywhere in the construction due to the symmetry of the interconnecting means.

In some embodiments of the present invention, the blocks may also be mounted, one to another, at right angles to each other. Thus, not only do such blocks of such embodiments have the capability of reverse and bi-directional mounting, but further, mounting perpendicularly to each other.

The insulating panels or blocks may be of the standard straight configuration or may be angled corner units. A corner unit would have the same interconnecting means above specified, i.e. a pattern of alternating projections and recesses substantially the same shape and dimensions, the pattern on the top being symmetrical with the pattern on the bottom. With such a corner unit a single corner unit can be utilized for either the left or the right hand corner by simply reversing the unit. Thus the corner units would also be bi-directional and reversible. Similar arrangements apply to "T" shaped insulating members as well as "x" shaped insulating members.

BRIEF DESCRIPTION OF THE DRAWINGS

Having thus generally described the invention, reference will now be made to the drawings which illustrate preferred embodiments of the invention, wherein:

Figure 1 is a perspective view of an insulating block according to one embodiment of the present invention;

Figure 2 is a perspective view of an insulating panel according to one embodiment of the present invention;

Figure 3 is a cross sectional view of a pair of insulating panels interconnected together according to one embodiment of the present invention;

Figure 4 is a cross sectional view of a pair of

insulating panels interconnected together according to another embodiment of the present invention;

Figure 5 is a cross sectional view of a pair of insulating panels interconnected together according to a further embodiment of the present invention;

Figure 6 is a perspective view of an insulating block of another embodiment of the present invention; and

Figure 7 is a top plan view of a portion of a side panel and end piece of an insulating block of the present invention showing their interconnection.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Reference will initially be made to Figure 1 of the drawings which illustrates a preferred embodiment of an insulating construction block of the present invention. The insulating construction block includes a pair of generally parallel panels or side walls 10, 12. Side walls 10, 12 are joined together by webs 14. Interconnection means 16 are provided on the top and bottom edges of the side walls 10, 12.

The interconnection means 16 permit the stacking and interconnection of a plurality of like blocks as would be required in the construction of a wall or similar arrangement. The interconnection means 16 include a plurality of projections 18 and recesses 20 arranged in an alternating pattern; the projections 18 and recesses 20 being of substantially the same shape and having substantially the same dimensions. The interconnection means 16 on the top and bottom edges of the side walls 10, 12 are substantially symmetrical, thereby permitting the interconnection of like blocks in a bi-directional and/or reversible manner. In the preferred embodiment illustrated in Figure 1, the interconnection means 16 include two rows of alternating projections 18 and recesses 20; although

other arrangements can be utilized as will be described later with reference to Figures 3 through 6. When two or more rows of projections 18 and recesses 20 are utilized the projections 18 and recesses 20 must alternate in both the x and y axis, i.e. a projection 18 of one row must be adjacent to a recess 20 of the other row as well as being adjacent to a recess 20 in the same row. As noted above the interconnection means 16 of the top edge of the sides 10, 12 must be symmetrical with the interconnection means 16 of the bottom edge of the sides 10, 12. Such an arrangement permits the interconnection of like blocks in almost any orientation such as bottom to top, top to top as well as in either direction. In other words, the blocks are bi-directional as well as being reversible.

As best shown in Figure 1, the interconnection means 16 may also include a sealing member 22. In the arrangement illustrated having two rows of projections 18 and recesses 20, the sealing member 22 is positioned therebetween and is in the form of a raised member which projects upwardly to a height less than the height of the projections 18. The sealing member 22 may also be positioned alongside of the projections 18 and recesses 20 of the interconnecting means 16.

Figure 2 illustrates an insulating panel according to an embodiment of the present invention. The insulating panel 34 includes interconnecting means 16. In the arrangement illustrated in Figure 2, the interconnecting means 16 include a plurality of projections 18 and recesses 20 in an arrangement similar to the arrangement of interconnecting means 16 described with reference to the block of Figure 1.

Figures 3, 4 and 5 illustrate cross-sectional

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views of panels of two like members A and B interconnected together, the figures show various embodiments of the interconnection means 16.

Figure 3 illustrates the arrangement of interconnecting means 16 as illustrated in Figure 1, i.e. two rows of alternating projections 18 and recesses 20 with a sealing means 22 positioned therebetween.

Figure 4 illustrates an arrangement of interconnecting means 16 which includes two rows of side-by-side alternating projections 18 and recesses 20. The arrangement of Figure 4 does not include an extra sealing means.

Figure 5 illustrates an arrangement where the interconnecting means 16 includes four rows of alternating projections 18 and recesses 20. The specific arrangement of interconnection means 16 in the embodiment illustrated in Figure 5, permits the mounting of blocks in a perpendicular fashion in addition to bi-directional and reversible mounting.

Figure 6 illustrates an insulating block according to another embodiment of the present invention. In this arrangement the insulating block has a pair of generally parallel panels or side walls 10, 12 joined together by webs 14.

The interconnection means 16 of this embodiment includes four rows of alternating projections 18 and recesses 20. As discussed with respect to Figure 5, the specific arrangement of interconnection means 16 in the embodiment illustrated in this figure, permits the mounting of blocks in a perpendicular fashion in addition to bi-

directional and reversible mounting.

The block also includes end pieces 24 which are adapted for releasable engagement with the side members 10, 12. Such end pieces 24 are slidably and releasably inserted in the block by way of a tongue and groove arrangement. In this respect the side walls 10, 12 may include tongues or grooves (or both) on the inside surfaces which are adapted for mating engagement with tongues or grooves present on ends of the end piece 24; this feature is best illustrated in Figure 7.

Figure 7 is a top plan view of a portion of an insulating block (such as that illustrated in Figure 6) illustrating the interconnection between a side wall 10 with the end piece 24. As illustrated, the end piece 24 includes projections 30 ~~grooves 30~~, which are slidably received in grooves 32 on an inside surface of the side wall 10.

Having described preferred embodiments of the present invention, it will be understood that various modifications can be made to the above embodiments without departing from the spirit or scope of the invention.

I CLAIM:

Sub A1

1. In an insulating construction member having top and bottom edges and interconnecting means on said top and bottom edges, the improvement wherein said interconnecting means comprise alternating projections and recesses, said projections and recesses being of substantially the same dimension, and wherein said interconnecting means on said top and bottom edges are symmetrically arranged whereby said insulating construction member can be interconnected with a like member in a bi-directional or reversible manner.

2. An insulating construction member according to claim 1, wherein said member is an insulating construction block.

3. An insulating construction member according to claim 1, wherein said member is an insulating construction panel.

Sub A2

4. ~~An insulating construction block comprising:~~
a pair of substantially parallel side members having top and bottom edges;

joining means interconnecting said side members;

interconnecting means on said top and bottom edges, said interconnecting means including at least one row of alternating projections and recesses, said projections and recesses having substantially the same dimensions;

wherein the interconnecting means on said top and bottom edges are substantially symmetrically arranged whereby said construction block can be interlocked with a ~~like block in a bi-directional or reversible manner.~~

5. 12 An insulating construction block according to claim 4, 11 further including removable end pieces, said end

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pieces including end walls having projections and wherein said side members include grooves for slidably receiving the projections of said end pieces.

6. An insulating construction member according to claim 1, wherein said interconnecting means include two rows of alternating projections and recesses.

7. An insulating construction member according to claim 6, wherein a recess of one row is adjacent a ~~projection of the other row.~~

8. An insulating construction member according to claim 6, wherein the interconnecting means includes an intermediate raised sealing member positioned between said rows of alternating projections and recesses.

9. An insulating construction member according to claim 6, wherein the interconnecting means includes a raised sealing member positioned adjacent to said rows of alternating projections and recesses.

10. An insulating construction member according to claim 1, wherein said member is comprised of a foamed material.

11. An insulating construction member according to claim 1, wherein said interconnecting means extend along the entire length of said top and bottom edges.

12. An insulating construction block according to claim 4, wherein said interconnecting means extend along the entire length of said top and bottom edges.

13. An insulating construction member according to claim 1, wherein said projections and recesses of said

interconnecting means are of a rectangular configuration.

14. An insulating construction member according to claim 1, wherein said projections and recesses of said interconnecting means include at least one tapering wall.

15. An insulating construction member according to claim 1, wherein said projections and recesses of said interconnecting means are of a conical configuration.

16. An insulating construction block according to claim 4, wherein said side members and said interconnecting means are of a one-piece integral configuration.

17. An insulating construction block according to claim 4, wherein said web means permit adjustability of a distance between said side members.

18. An insulating construction member according to claim 1, wherein said member has a configuration selected from the group consisting of straight, angled, T-shaped or X-shaped.

19. An insulating construction block according to claim 4, wherein said joining means comprises at least one web interconnecting said side members, said web comprising a synthetic material.

20. An insulating construction member according to claim 1, wherein said member is formed of a foamed polymeric material.

COMBINED DECLARATION AND POWER OF ATTORNEY FOR UTILITY PATENT APPLICATION	Attorney Docket No. 5575-1A US

As a below named inventor, I hereby declare that:
My residence, post office address and citizenship are as stated below next to my name;
I BELIEVE I AM THE ORIGINAL, FIRST AND SOLE INVENTOR (if only one name is listed below) OR AN ORIGINAL, FIRST AND JOINT INVENTOR (if more than one name is listed below) OF THE SUBJECT MATTER WHICH IS CLAIMED AND FOR WHICH A PATENT IS SOUGHT ON THE INVENTION

ENTITLED: INSULATING CONSTRUCTION PANEL OR BLOCK

the specification of which:

(check one) [X] is attached hereto:

[ ] was filed on _____ as

Application Serial No. _____

and was amended on _____ (if applicable)

I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS, AS AMENDED BY ANY AMENDMENT REFERRED TO ABOVE:

I ACKNOWLEDGE THE DUTY TO DISCLOSE INFORMATION WHICH IS MATERIAL TO THE EXAMINATION OF THIS APPLICATION IN ACCORDANCE WITH TITLE 37, CODE OF FEDERAL REGULATIONS, Sec. 1.56 (a) which states: "A duty of candor and good faith toward the Patent and Trademark Office rests on the inventor, on each attorney or agent who prepares or prosecutes the application and on every other individual who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application. All such individuals have a duty to disclose to the Office information they are aware of which is material to the examination of the application. Such information is material where there is a substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent. The duty is commensurate with the degree of involvement in the preparation or prosecution of the application."

I do not know and do not believe the said invention was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof, or more than one year prior to said application; that said invention was not in public use or on sale in the United States of America more than one year prior to said application; that said invention has not been patented or made the subject of an inventor's certificate issued before the date of said application in any country foreign to the United States of America on any application filed by me or my legal representatives or assigns more than twelve months prior to said application.

I hereby claim foreign priority benefits under Title 35, United States Code Sec. 119 and/or Sec. 365 of any foreign application(s) for patent or inventor's certificate as indicated below and have also identified below any foreign application for patent or inventor's certificate on this invention having a filing date before that of the application for patent or inventor's certificate on this invention having a filing date before that of the application on which priority is claimed:

COMBINED DECLARATION AND POWER OF ATTORNEY		Attorney Docket No. 5575-1A US	
COUNTRY/INTERNATIONAL	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			YES____ NO____
			YES____ NO____

I hereby appoint the following attorneys and agent(s) to prosecute said application and to transact all business in the Patent and Trademark Office connected therewith and to file, prosecute and to transact all business in connection with international applications directed to said invention:

(3) IAN FINCHAM, REGN. NO. 26,375
JAMES W. KERR, REGN. NO. 34,082
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I hereby declare that all statements made herein of my own knowledge are true and that all statements were made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the vaildity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR	SIGNATURE	DATE
MICHEL PHILIPPE		Feb. 4, 1994
RESIDENCE 2840 BOUVIER RD. HAMMOND, ONTARIO K0A 2A0 CANADA CAX	CITIZENSHIP CANADIAN	
POST OFFICE ADDRESS SAME AS ABOVE		

FULL NAME OF SECOND JOINT INVENTOR, IF ANY	SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
POST OFFICE ADDRESS		

FULL NAME OF THIRD JOINT INVENTOR, IF ANY	SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
POST OFFICE ADDRESS		

* Please see attached continuation page for additional inventors.

08 195017

Attorney's
Docket No. 5575-1A US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

UTILITY PATENT
APPLICATION TRANSMITTAL LETTER

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the utility patent application of
MICHEL PHILIPPE
for INSULATING CONSTRUCTION PANEL OR BLOCK

Enclosed are:

[X] 6 sheets of [ ] formal [ ] informal drawing(s).
[ ] A claim for foreign priority under 35 U.S.C. 119/365 in
[ ] a separate document [ ] the declaration.
[ ] A certified copy of the priority document.
[ ] An Associate Power of Attorney.
[X] One verified statement(s) of small entity status.
The declaration of the inventor(s) [X] is enclosed [ ] will follow:
The fee has been calculated as follows:

A.	Basic Application Fee			$ 710.00
B.	Total Claims 20 minus 20 = 0 x	$ 22.00	=	$ Nil
C.	Independent Claims 2 minus 3 = 0 x	$ 74.00	=	$ Nil
D.	If multiple dependent claims present, add	$ 230.00	=	$ Nil
E.	Total Application Fee (Total A, B, C & D)		=	$ 710.00
F.	If verified statement of small entity status is enclosed, fifty percent reduction of Total Application Fee (50% x E)		=	$ 355.00
G.	Application Fee Due (E minus F)		=	$ 355.00
H.	Assignment Recording Fee of $40.00 if assignment document enclosed		=	$ Nil
I.	TOTAL FEE (G plus H)		=	$ 355.00

[X] A ~~check~~ money orders in the amount of $ 355.00 is attached.
[ ] Charge $_____ to Deposit Account No. 13-0398.

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. SS1.16, 1.17 and 1.21 which may be required by this paper, or to credit any overpayment, to Deposit Account No. 13-0398. A duplicate copy of this paper is enclosed.

Respectfully submitted,

Ian Fincham, Esq.
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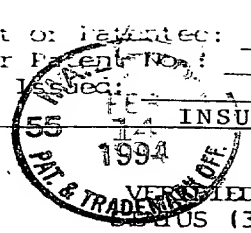
Telephone: (613) 234-1907

By: _____
IAN FINCHAM, REG.NO. 26,375

Applicant or Patentee: MICHEL PHILIPPE
Serial or Patent No.:
Filed or Issued:
For: INSULATING CONSTRUCTION PANEL OR BLOCK

Attorney's Docket No.: 5575-1A



VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(b)) - INDEPENDENT INVENTOR

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled INSULATING CONSTRUCTION PANEL OR BLOCK described in

[X] the specification filed herewith
[ ] application serial no. _____, filed _____
[ ] patent no. _____, issued _____.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

[X] no such person, concern, or organization
[ ] persons, concerns or organizations listed below*

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

FULL NAME _____
ADDRESS _____
[ ] INDIVIDUAL [ ] SMALL BUSINESS CONCERN [ ] NONPROFIT ORGANIZATION

FULL NAME _____
ADDRESS _____
[ ] INDIVIDUAL [ ] SMALL BUSINESS CONCERN [ ] NONPROFIT ORGANIZATION

FULL NAME _____
ADDRESS _____
[ ] INDIVIDUAL [ ] SMALL BUSINESS CONCERN [ ] NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
MICHEL PHILIPPE		
Signature of Inventor	Signature of Inventor	Signature of Inventor
X Michel Philippe		
Date	Date	Date
X Feb. 4, 1994		